PX Series

PX700W, PX750U and PX800X digital projectors

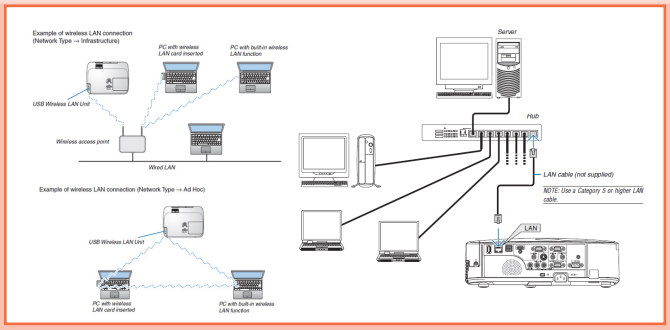
Powerful installation projector equipped to take on the most demanding integration projects.

FLEXIBILITY ENABLES PERFORMANCE

• High-performance video processing/scaling, utilizing the Hollywood Quality Video processor, is designed for computer signals as well as standard or high-definition video. The technology produces superior video processing using pixel-based, motion-adaptive de-interlacing to remove undesirable motion artifacts typical of interlaced signals. This processing creates life-like images in applications such as video conferencing.
• Bright enough for most applications: 7000 lumens (PX700W), 7500 lumens (PX750U), 8000 lumens (PX800X) with a 6-segment (RGBYCW) color wheel. For higher video quality color reproduction, BrilliantColor™ technology and a second 6-segment (RGBYCM) color wheel (included) can dramatically increase color saturation at mid and low video levels, while optimizing color gain across the full color gamut.
• VIDI technology, a Phillips innovation designed to work in conjunction with the color wheel, uses a brilliant pulse to increase the brightness of the image and a dark pulse to increase the contrast ratio
• Lens memory controls lens attributes (zoom, focus, shift) based on input resolution and input selection

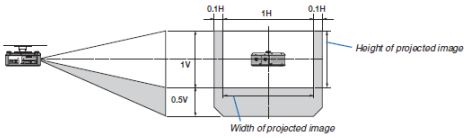
INTEGRATED NETWORKING AND ASSET MANAGEMENT

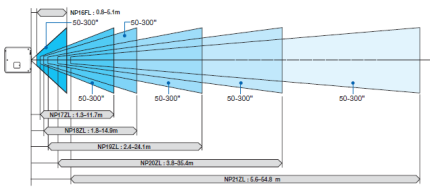
• Integrated RJ45 connection for quick connection to the LAN (10/100 base-T capability)
• Optional high-speed wireless LAN IEEE 802.11b/g/n
• Desktop control allows you to securely transmit information wirelessly to the projector from a docking station or PC in another room
• Image Express Utility (IEU 2.0; compatible with Windows or Mac operating systems) dedicated projector software provides wired and wireless data transmission via peer-to-peer or over the network
  • Broadcast mode allows you to send information from one computer to several projectors
• Windows Network Projector function within Windows Vista connects directly to networked projectors without the need for additional proprietary software
• Windows Remote Desktop function allows you to control a networked computer by connecting a USB mouse and keyboard directly to the projector's USB input
• Windows Network Drive Function displays multimedia files (.jpeg, .bmp, .png, .mpeg2 or .wmv9) in the Windows shared folder on a local network using the Viewer function—all without bringing your PC into the conference room
• Windows Media Connection Function displays multimedia files (.mpeg2, .jpeg or .wmv9) stored on the Windows Media Connect server or a local network using the Viewer function—all without bringing your PC into the conference room
• Crestron Roomview Connected™



Lens Shift

Enjoy greater installation flexibility with 50% vertical lens shift and +/- 10% horizontal lens shift. Ships lensless with a complete line of optional bayonet style lenses (6) for quick and easy exchange. Lens throw distances range from 2.6 to 179.8 feet.





SECURITY FEATURES PROVIDE PEACE OF MIND

• Cabinet control lock setting enables user to deactivate buttons on cabinet to prevent unwanted changes to projector settings
• Logo lock restricts changes to logo saved in projector memory
• Password protection restricts unauthorized use of projector
• Email notification informs the system administrator when the lamp approaches the end of its useful life

NEC
necdisplay.com

DESIGNED WITH THE ENVIRONMENT IN MIND

- **Extended lamp life with ECO Mode™ technology** increases lamp life up to 2500 hours, while lowering power consumption
- **Power management** enables projector to automatically turn off when an incoming signal is not detected from any of the inputs
- **Auto Power On** via the RGB (15-pin) input connector when a signal is detected from a computer
- **Carbon savings meter** calculates the positive effects of operating the projector in ECO Mode, which is encouraged by an optional message at startup. A green ECO Mode button on the remote control makes the switch easy.
- **Quick start** (3 to 4 seconds) lets you begin presenting in seconds while quick shutdown (immediate power off with no cooling required after shutdown) ensures efficient energy usage
- **Sleep timer** can be set to automatically turn off the projector at set countdown times
- **Low power consumption** (0.2W in stand-by mode) minimizes energy costs
- **Direct power off** provides instantaneous shutdown of the projector

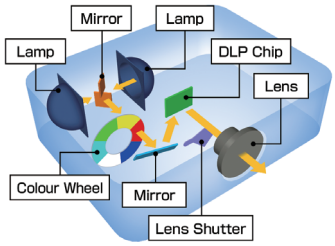
ECO MODE

2500-hour filter life

NEC is committed to designing its products to provide long lifecycles. This commitment even extends to components within its products, including the improved filter. This virtually maintenance-free filter reduces the frequency at which cleaning is required, thereby decreasing your total cost of ownership. Filter replacement is only required at the time the lamp is replaced.

Dual lamps

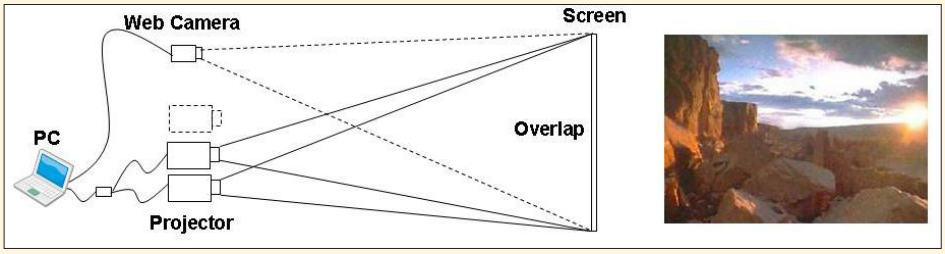
The PX Series features dual lamps, providing up to 8000 lumens of light output. You can combine dual lamps for up to four different light configurations (Normal Mode with dual or single lamp and ECO Mode with dual or single lamp) and settings depending on the ambient lighting conditions.



BUILT-IN SOFTWARE

Built-in stacking correction

The industry's first built-in stacking correction capabilities (up to four projectors) allows the projectors to boost an image's brightness up to 32,000 lumens, which is ideal for larger-sized screens and environments with heavy ambient light. This feature also prevents the complete loss of an image, which can happen when using only one projector.



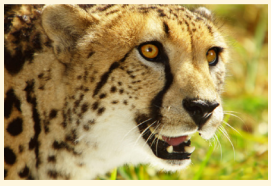
Built-in wall color correction presets

These provide for adaptive color tone correction to display properly on non-white surfaces.

On a green wall...

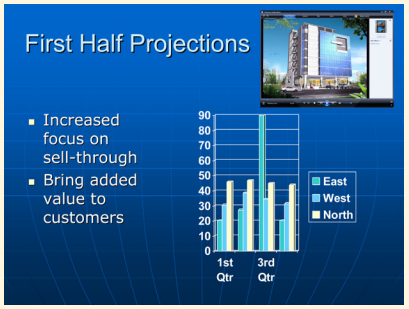
BEFORE auto wall correction

AFTER auto wall correction



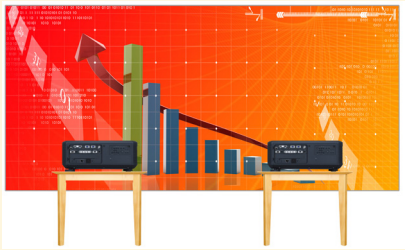
PIP/Side-by-Side

This function allows two sources to be displayed on the screen at one time in either a picture-in-picture or side-by-side configuration.



Edge blending

This function seamlessly blends multiple projected images to display a single high-resolution image.



GET CONNECTED WITH A WIDE SELECTION OF INPUTS

- **Dual computer inputs** ensure quick switching between presentations

Remote control

Easy control from remote allows you to adjust lamp mode, aspect ratio, volume and image all with the touch of a button.

DisplayPort

This input provides PX Series models with expanded connectivity with advanced technology.

HDMI™ input

Among the PX Series' wide selection of inputs is an HDMI w/ HDCP for connecting to high-definition sources such as Blu-ray players, cable boxes, satellite receivers and personal computers.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

USB Viewer

In instances when you'd prefer to leave your laptop behind for a presentation, PX Series projectors can deliver a solution. Using the presentation conversion software included with your projector, simply place your file onto a USB drive and plug it into the projector's USB port. This allows you to display images stored as .jpgs from optional USB memory.

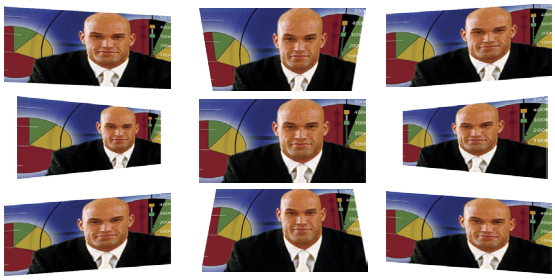
Open Pluggable Specification (OPS)

The first industry-wide standardization in option slots simplifies installation, use and maintenance, while offering superior input flexibility.

ADVANCED SOFTWARE FEATURES

Cornerstone

Enhanced keystone correction allows for horizontal, vertical and diagonal image correction for aligned images even when the projector is set up at an angle to the screen.

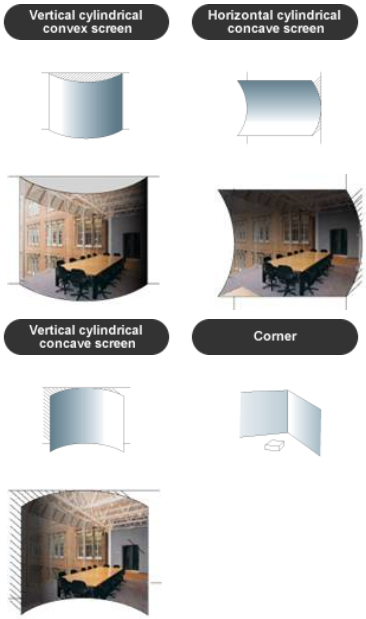


Virtual Remote™

Used via a network connection (wired/wireless), you can control the projector directly from a computer without the need for additional control cables.

Geometric Correction

Projecting an image isn't confined to a standard flat screen or wall with the NEC PX Series. Geometric correction allows these models to project an image on spheres, cylinders, corner angles and many more non-standard surfaces.



UNIQUE FEATURES

3D Reform™ allows you to square the image by adjusting horizontally, vertically or diagonally when the projector cannot be placed parallel or perpendicular to the screen

Advanced AccuBlend™ ensures detailed images when non-native resolution sources are connected to the projector

AutoSense™ automatically syncs with any computer signal and features one-touch image optimization

64-step image magnification with location control

Discreet source keys for source selection

Remote diagnostics enable the user to monitor and make adjustments to the projector remotely

Built-in HTTP page for control and monitoring over a LAN network. Email notification of error messages or lamp end-of-life can be sent to remote locations.

WARRANTY

Registered owners receive a 3-year parts and labor warranty including the first year of InstaCare. The lamp is covered for one year or 500 hours, whichever comes first. InstaCare provides the original owner one year of either limited 3 business day repair/return or next business day exchange.

IN THE BOX

Remote control, remote control cable, batteries, power cord, RGB signal cable, lens cap, user’s manual on CD-ROM, quick start guide, product registration card, wired and wireless network setup guide, lens anti-theft screw

ORDERING MODEL NUMBERS

NP-PX700W
NP-PX750U
NP-PX800X

EcoCare℠ InstaCare℠

Specifications for PX700W/PX750U/PX800X

OPTICAL	
Display Technology	PX700W: 0.65” DMD/PX750U: 0.67” DMD/PX800X: 0.7” DMD
Light Output (lumens)	PX700W: 7000 normal / Eco = approx. 80% of normal mode PX750U: 7500 normal / Eco = approx. 80% of normal mode PX800X: 8000 normal / Eco = approx. 80% of normal mode
Resolution	PX700W: WXGA 1280 x 800/PX750U: WUXGA 1920 x 1200/PX800X: XGA 1024 x 768
Native	WUXGA 1920 x 1200
Maximum	2100:1
Contrast Ratio (up to)	(2) 400W AC / 320W eco
Lamp Type	2000 hours normal / 2500 hours eco
Lamp Life (up to)	50 to 300 in. / 1.3 to 7.6m
Screen Size (diagonal)	
Throw Ratio	
NP06FL	0.77:1
NP07ZL	1.33 - 1.79:1
NP08ZL	1.78 - 2.35:1
NP09ZL	2.22 - 4.43:1
NP10ZL	4.43 - 8.3:1
NP16FL	0.76:1
NP17ZL	1.25 - 1.79:1
NP18ZL	1.73 - 2.27:1
NP19ZL	2.22 - 3.67:1
NP20ZL	3.58 - 5.38:1
NP21ZL	5.31 - 8.26:1
Projection Distance	2.6 to 179.8 ft. / 0.8 to 54.8m
Projection Angle	0° tele / 14.6° wide
Lens*	
Zoom	Power
Focus	Power
F-number, f-number	
NP06FL	F=2, f=11.4mm
NP07ZL	F=1.8 to 2.3, f=19.3 to 25.8mm
NP08ZL	F=1.7 to 1.9, f=26 to 34mm
NP09ZL	F=2.1 to 2.9, f=32 to 63mm
NP10ZL	F=2.2 to 3.1, f=63.5 to 117.4mm
NP16FL	F=1.85, f=11.6mm
NP17ZL	F=1.85 to 2.5, f=18.7 to 26.5mm
NP18ZL	F=1.64 to 1.86, f=25.7 to 33.7mm
NP19ZL	F=1.86 to 2.48, f=32.9 to 54.2mm
NP20ZL	F=1.85 to 2.4, f=52.8 to 79.1mm
NP21ZL	F=1.85 to 2.48, f =78.5 to 121.9mm
Shift	Power: 50% vertical, +/- 10% horizontal
Keystone Correction	PX750U: +/- 35° horizontal, +/- 30° vertical PX700W/PX800X: +/- 40° horizontal, +/- 30° vertical
SIGNAL COMPATIBILITY/ CONNECTIVITY	
Scan Rate	
Horizontal	15 – 108 kHz
Vertical	48 – 120 Hz
Supported Video Standards	NTSC, NTSC4.43, PAL, PAL-60, PAL-M, PAL-N, SECAM
SD/HD Video Signal Compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
PC Signal Compatibility	VGA, SVGA, XGA, SXGA, SXGA+, UXGA, WUXGA
Macintosh Compatibility	Yes
Input/Output Terminals	
RGB1 (analog)	VGA 15-pin D-sub
RGB2 (analog)	VGA 15-pin D-sub
RGB3 (analog)	5-BNC
RGB4 (digital)	HDMI w/ HDCP
RGB5 (digital)	DisplayPort w/ HDCP
Video 1	RCA
Video 2	S-Video
Option Slot	HD/SD-SDI
Monitor Out	VGA 15-pin D-sub
External Control	RS-232, IR, Wired LAN, DDC/CI, USB, Wireless LAN (optional)
Sync Compatibility	Separate Sync / Composite Sync / Sync on G
Networking	RJ-45 and Wireless LAN (optional)
USB	Viewer
ELECTRICAL	
Power Requirements	100 – 240V AC, 50/60Hz
Input Current	10.8A
Power Consumption (Normal/ECO Mode/Standby/ Standyby-Power Saving	1006W / 810W / 33W / 0.2W
MECHANICAL	
Installation Orientation	Floor/Front, Floor/Rear, Ceiling/Front, Ceiling/Rear
Dimensions (WxDxH)	19.8 x 20.3 x 7.6 in. / 504 x 516 x 192mm
Net Weight	43.4 lbs. / 19.7 kg
Fan Noise	43 dB normal / 39 dB eco
Regulations	USA: UL60950-1, FCC Part15 Class B / Canada: CSA60950-1, ICES-003 Class B
ENVIRONMENTAL	
Operating Temperature	32° – 104°F / 0° – 40°C
Humidity	20-80% non-condensing
Storage	-14° – 122°F / -10° – 50°C
ACCESSORIES	
NP06FL	0.77:1 fixed short throw lens for PX700W/PX800X
NP07ZL	1.33 -1.79:1 zoom lens for PX700W/PX800X
NP08ZL	1.78 -2.35:1 zoom lens for PX700W/PX800X
NP09ZL	2.22 -4.43:1 zoom lens for PX700W/PX800X
NP10ZL	4.43 -8.3:1 zoom lens for PX700W/PX800X
NP16FL	0.76:1 fixed short throw lens
NP17ZL	1.25 - 1.79:1 zoom lens
NP18ZL	1.73 - 2.27:1 zoom lens
NP19ZL	2.22 – 3.67:1 zoom lens
NP20ZL	3.6 – 5.41 zoom lens
NP21ZL	5.30 - 8.30:1 zoom lens
NP02LM1	Wireless LAN module
SB-01HC	HD/SD-SDI input card
PX750CM	Ceiling mount
PXCase-01	ATA-certified case for shipping and secure storage
RMT-PJ33	Replacement remote control
NP01PW1	Replacement power cable
RGBCBL-PJPX	Replacement RGB signal cable
NP02FT	Replacement filter
SCP200	Suspended ceiling plate
NP22LP	Replacement lamp
N8000-8830	NEC OPS PC with Intel Core i5, 320GB Hard Drive, Windows Embedded Standard 7
NECEW2-I	Extends term of parts and labor warranty to 5 years
NECEW1-I	Extends term of parts and labor warranty to 4 years
ADVEXON1-I	Extends term of InstaCare service program to 2 years
ADVEXON2-I	Extends term of InstaCare service program to 3 years
TBD	Maintenance plan
TBD	Extends maintenance plan for 3rd year including parts & labor
TBD	Extends maintenance plan for 4th year including parts & labor

* Lens does not ship with the projector.
Additional accessories are available, including screens, carts, mount accessories and replacement cables. Visit www.necdisplay.com for details.

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